FSA Modernization Partner

NSLDS II Reengineering
System Interface Detail Design:
Postsecondary Education Participant System
GA/Lender Cohort Default Rate Interface
I-PEPS-3

DRAFT

Version 1.0

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Document Control

Version Number	Description	Release Date	Author
1.0	Initial Issue	09/30/2002	Troy Edwards

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1   Postsecondary Education Participant System (PEPS)

PEPS will send school-related data to NSLDS II daily. The data sent by PEPS will be the primary source of school data for NSLDS II. NSLDS II will also use this data to calculate the Cohort Default Rate for each School, GA, and Lender (currently done twice a year). After calculation of cohort default rates, NSLDS II will send calculated rates to PEPS.

As part of the eCDR initiative slated for production in legacy NSLDS for January and February of 2003, three additional interfaces are being developed. NSLDS II will support all of these new interfaces. The first interface will be an outbound file from NSLDS II to PEPS containing a list of OPEIDs (Schools) who have signed up for eCDR.   The second interface is an inbound interface of two files, one containing default rate letter information and the other containing a list of OPEIDs eligible for Loan Record Detail Report (LRDR) backup. The third interface is an outgoing interface sending cohort default rate letters and LRDR in extract and report format.

The PEPS interfaces include:
- PEPS Extract File – School Data (**See I-PEPS-1 Document**)
- Error File (PEPS Extract File) (**See I-PEPS-1 Document**)
- School Cohort Default Rate File (**See I-PEPS-2 Document**)
- GA/Lender Cohort Default Rate (**See Section 1.2**)
- ECDR OPEID Participants (**See I-PEPS-4 Document**) (Will be part of 11/8 Deliverable)
- Cohort Default Rate Notification Letter Data (**See I-PEPS-5 Document**) (Will be part of 11/8 Deliverable)
- Eligible OPEIDs for LRDR Backup (**See I-PEPS-5 Document**) (Will be part of 11/8 Deliverable)
- Cohort Default Rate Notification Letter Files (Outbound to Schools) (**See I-PEPS-6 Document**) (Will be part of 11/8 Deliverable)

1.1   System Specifics

1.1.1   NSLDS II

Item	Description
Production Platform *(Vendor/Product Name/Version)*	IBM/ Cluster 1600 Server/ 4 p-Series 660 Model 6M1 4 FastT500 Arrays
Operating System *(Vendor/Product Name/Version)*	Unix/AIX/V 5.1 Parallel Systems Support Program (PSSP)
DBMS *(Vendor/Product Name/Version)*	IBM/DB2 Universal Database (UDB)/Enterprise Extended v. 7.2
Transmission Protocol	TCP/IP
Production System IP Address	TBD
Production System Location	Meriden, CT

Contracting Organization	Accenture – Modernization Partner
Developer Location	Modernization Partner Offices – Washington DC

1.1.2   PEPS

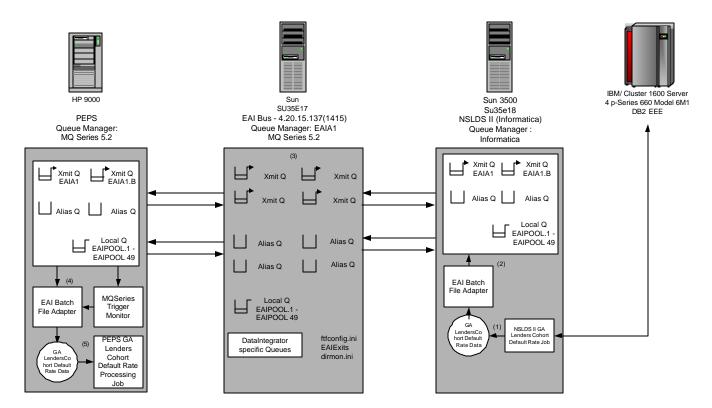| Item	Description
Production Platform *(Vendor/Product Name/Version)*	HP / HP 9000
Operating System *(Vendor/Product Name/Version)*	Unix
DBMS *(Vendor/Product Name/Version)*	Oracle 8i/8.05
Transmission Protocol	TCP/IP
Production System IP Address	TBD
Production System Location	Meriden, CT
Contracting Organization	TBD
Developer Location	TBD

1.2   GA/Lender Cohort Default Rate

1.2.1   Interface Control Specifications

Interface Name:	GA/Lender Cohort Default Rate
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	This document defines the processes utilized by NSLDS II to transport the GA/Lender Cohort Default Rate file via the EAI BUS. NSLDS II will calculate draft and official Cohort Default Rates for each GA and Lender. See the Cohort Default Rate procedure document (P-CDR-1) for additional details. After calculation of Cohort Default Rates, NSLDS II (Informatica) will produce a file in flat file format and transmit the file to PEPS over the EAI BUS.
Requesting Application: or Source Application:	NSLDS II is the source for the GA/Lender Cohort Default Rate file
Responding Application: or Destination Application:	PEPS receives the GA/Lender Cohort Default Rate file
Detailed Technical Requirement References:	5.1.7.4, 5.1.7.5
Interface Usage Frequency:	Bi-Annually (One file containing Draft rates in February and one file

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	containing Official rates in September)
Interface Usage Volume:	TBD
Output Media:	Flat File
Transmission Mechanism:	EAI Bus

1.2.2   Interface Flow

1.2.3   Interface Flow Description

1. The NSLDS II system (Informatica) will initiate a process to create the GA/Lenders Cohort Default Rate File
2. The EAI Batch File Adapter will move the file to the EAI BUS
3. The EAI BUS will route the file to the PEPS server
4. The EAI Batch File Adapter will move the file to the PEPS server
5. The PEPS load job will process the GA and Lenders Cohort Default Rate file

1.2.4   Source System Functional Specifications

#	Responsibility
1	NSLDS II (Informatica) will extract the GA/Lender CDR data and save it as a flat file
2	The data extracted will be laid out as in section 1.2.8 Each record will consist of:

	One Detail Record
3	An EAI batch file adapter will be supplied to initiate the file transfer from NSLDS II to PEPS
4	NSLDS II will provide the EAI adaptor file transfer utility with the following input parameters: Input File Name - TBD

1.2.5   Destination System Functional Specifications

#	Responsibility
1	The EAI BUS will deliver the GA/Lenders Cohort Default Rate file to the PEPS server
2	The EAI Adaptor takes the following information as input: Queue manager name - TBD Queue name - TBD Sync point counter - TBD Output file name - TBD

1.2.6   Interface Assumptions

#	Assumption
1	MQSeries Queue Manager is installed / configured for the NSLDS II / PEPS environment
2	The EAI architecture will be configured to support the transfer of data from NSLDS II to PEPS
3	Detailed Cohort Default Rate functionality is outlined in the Cohort Default Rate Procedures document (P-CDR-1)

1.2.7   Error Messages

Code	Message
NA	NA

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1.2.8   File Layout

Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Base ID	1-6	6	Character	GA or Lender ID.	NA	GA / CODE or LEN / CODE
ID Number Branch	7-10	4	Character	Branch ID if Lender indicated in Base ID	NA	LEN_BR_SVR / CODR
Region	11-12	2	Character	ED assigned region code (0-10) based on state code.	Use STATE REGION XREF table in the VALIDATION_TRANSLATION_TABLE to derive region from state code.	GA / ST or LEND / ST
Organization Type	13-13	1	Character	Originating ("O") or Current ("C") lender or GA ("G").	NA	ORG / ORG_TYPE
Name	14-53	40	Character	Business name for GA or Lender	NA	GA / NM or LEN / NM
Street Address	54-103	50	Character	The street address of an institution issuing an FFEL Program loan.	NA	GA / STR_ADD or LEN / STR_ADD
City	104-123	20	Character	The city in which an institution issuing an FFEL Program loan resides.	NA	GA / CITY or LEN / CITY
State Code	124-125	2	Character	A two digit alphabetic code identifying the state in which an institution issuing an FFEL Program loan resides.	NA	GA / ST or LEN / ST

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Zip Code	126-134	9	Character	The postal zip code for an institution issuing an FFEL Program loan.	NA	GA / ZIP_CODE or LEN / ZIP_CODE
State Name	135-179	45	Character	State name	Use STATE CODES table in the VALIDATION_TRANSLATION_TABLE to derive State Name from state code.	GA / ST and LEN / ST
Institution Type	180-180	1	Character	A code indicating the organization type of an institution issuing an FFEL Program Loan.	NA	LENDER / TYPE
Cohort Year	181-184	4	Numeric	Twelve month Repayment period for loans used in the calculation	NA	DEFAULT_RATE_HISTORY / COHORT_YEAR
Status Code	185-185	1	Character	Indicates whether organization is foreign or domestic (State code of "FC" indicates foreign country).	IF OUT-STATE-CODE = 'FC' MOVE 'F' TO OUT-STATUS-CODE ELSE MOVE 'D' TO OUT-STATUS-CODE	GA / ST and LEN / ST
Amount Claims Paid	186-200	15	Numeric	Aggregate amount of Claims paid to the Lender or GA	NA	If Lender: LENDER_BRANCH_AGGREGATE/ D_AMOUNT If GA: GA_AGGREGATE / D_AMOUNT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Dollars in Default	201-210	10	Numeric	Outstanding principal balance of loans for students in the numerator	NA	DEFAULT_RATE_HISTORY / GAFFEL_DOLLARS_IN_DEFAULT
Dollars in Repayment	211-220	10	Numeric	Outstanding principal balance of loans for students in the denominator	NA	DEFAULT_RATE_HISTORY / FFEL_DOLLARS_IN_REPAYMENT
Official Numerator	221-228	8	Numeric	Count of students with loans in default	NA	DEFAULT_RATE_HISTORY / FFEL_NUMERATOR
Official Denominator	229-236	8	Numeric	Count of students with loans in repayment	NA	DEFAULT_RATE_HISTORY / FFEL_DENOMINATOR
Official Rate	237-239	3	Numeric (one decimal place)	Students in default divided by students in repayment	Rounded to the first decimal.	Derived from dividing DEFAULT_RATE_HISTORY / FFEL_NUMERATOR and DEFAULT_RATE_HISTORY / FFEL_DENOMINATOR
GLOS Flag	240-240	1	Character	Not Currently Used	Always set to spaces	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
GLOS Rate	241-243	3	Numeric	Not Currently Used	Always set to zeros	NA
GLOS Note	244-303	60	Character	Text Description of Calculation	("Draft" or "Annual")	DEFAULT_RATE _HISTORY / Rate_Type
Filler	304-310	7	Character	Reserved for future use	NA	NA